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# Galaxy Training: A powerful framework for teaching!

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## Training

There is an ongoing explosion of scientific datasets being generated, brought on by recent technological advances in many areas of the natural sciences. As a result, the life sciences have become increasingly computational in nature, and bioinformatics has taken on a central role in research studies. However, **basic computational skills, data analysis, and stewardship are still rarely taught** in life science educational programs, resulting in a skills gap in many of the researchers tasked with analyzing these big datasets.

## TIaaS

**Training Infrastructure as a Service (TIaaS)** is a **free** service providing a **dedicated job queue** for the participants of training events, in order to reduce waiting times on the cluster and ensure courses run smoothly and efficiently.

Since 2018:

**860+**  
Events

**38k+**  
Students

The TIaaS service also provides instructors with a **dashboard**, enabling them to monitor the progress of the participants.

## A collection of FAIR training materials

The Galaxy Training Network (GTN) has developed the Galaxy Training Platform (<https://training.galaxyproject.org>), an **open access, community-driven** framework for the collection of **FAIR training materials** for data analysis utilizing the user-friendly Galaxy framework as its primary data analysis platform.

**35+**  
Topics

**470+**  
FAQs

**25**  
Learning  
Paths

**450+** Tutorials

**Rich metadata**

**Structured content**

- Theory and analysis explanation
- ✂ Hands-on to apply the concepts
- 📄 Formative assessment question

**Strong technical support**

- 🌐 Galaxy servers with needed tools
- 📄 Available data
- 🔄 Workflow
- 📺 Recordings
- 🗋 Frequently Asked Questions

**Community oriented**

- 🗣 Translation
- 👤 Highlighted contributors and funding
- 📄 Embedded feedback form
- 💬 Community support chat

**490+**  
Contributors

**3,970+**  
Feedback

**& many other features:**

Notebooks, Video slides, Automatic accessibility, Choose Your Own Adventures, Contributor pages, Funding report, Contributions via Forms, etc

While initially aimed at supporting researchers directly, the GTN framework has proven to be an **invaluable resource for educators** as well. We have focused our efforts in recent years on adding increased **support** for this growing community of instructors.

## Massive, online & worldwide training events with Galaxy Training Academy

Since 2021, GTN organizes Galaxy Training Academy: a **free, online, self-paced**, and **choose-your-own-adventure** style training events.

**220+**  
Videos

**140+**  
Hours  
of recordings

**130+**  
Instructors

**10k+**  
Registrations

This year we have partnered with BioConductor and the RO-crates team to deliver bioinformatics training that goes beyond the Galaxy!

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Gallantries



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Galaxy PROJECT



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